



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3275-1

Job Sheet 195277



Part No: D3275-1

Job Qty: 62 pcs

Part Name: Cross Bolt Spacer



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/16/19

Job Tracking No:

Due Date: 9/6/19

Created By: Kimberley Guerin

Type: Stock

Description:

Note: DWG REV A1 IPP Rev:A 04.10.19 New issue KJ/JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
130	Purchasing	62 pcs		9/6/19	0.00	0.00	Purchasing - 1	
							Purchasing - 2	
							Purchasing - 3	
140	Packaging 2-1 - Receive - B4B	62 pcs		9/6/19	0.00	0.00	Packaging 2 - 1 - B4B	
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Container No: S213175



Part: D3275-1

Job No: 195277

Serial No/Batch: S213175

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 09/12/19

Plex 5/16/19 3:19 PM Dart.Guerin.Kimberley

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
150	QC 6	62 pcs	9/6/19	0.00 0.00	QC 6 - 9	
					QC 6 - 68	DAS
					QC 6 - 61	81
					QC 6 - 40	9-89
						SEP 16 2019
160	Packaging 3-1 - Stock - B4B	62 pcs	9/6/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	PC L 5 001
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
170	QC 21 - SA	62 pcs	9/6/19	0.00 0.00	QC 21 - SA - 21	DAS
					QC 21 - SA - 70	21
					QC 21 - SA - 53	9-89
						SEP 17 2019
Part Op 130 - ISSUE P/O: _____ SUPPLIER: E.T.M. INDUSTRIES INC. MANUFACTURE AS PER DWG Descriptions: C OF C IS REQUIRED 160 - (Identify as per dwg & Stock Location: _____) ***STOCK IN SKIDTUBE CELL*** 170 - (QC21- Final Inspection - Work Order Release)						
Job BOM						
Part / Item	Component Name	Quantity	Operation	Container		
D3275-1P	Crossbolt Spacer	62 Ea (1 ea)	130-Purchasing	5213174		

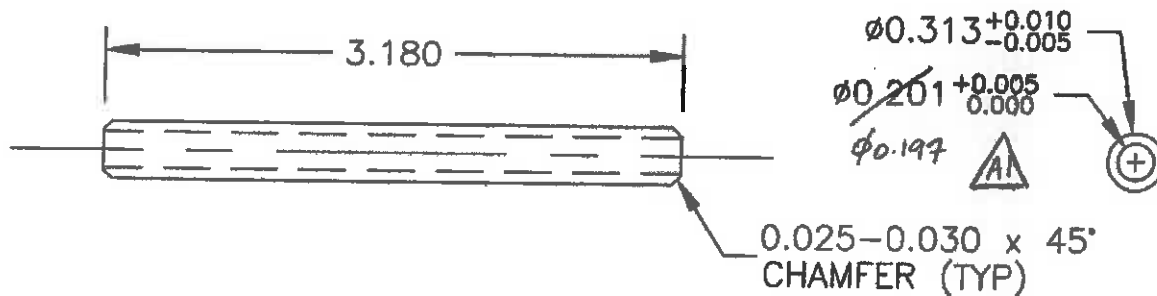
Job Allocations				
Operation 130-Purchasing	Component Part D3275-1P	Required 62	Inventory 0	Allocated 0
Part Specifications				
Spec No	Description	Target/Tolerance	Limits	Type Special Comments
1	Crossbolt Spacer	3.180inches $\pm$ 0.010	3.190 3.170	
2	Crossbolt Spacer	0.025inches + 0.005 - 0.000	0.030 0.025	
3	Crossbolt Spacer	45.00Degrees $\pm$ 0.01	45.01 44.99	
4	Crossbolt Spacer	0.313inches + 0.010 - 0.005	0.323 0.308	
5	Crossbolt Spacer	0.0580inches + 0.0025 - 0.0000	0.0605 0.0580	

Plex 5/16/19 3:19 PM Dart.Guerin.Kimberley



DESIGN	UP	DRAWN BY	UP	DART AEROSPACE USA, INC.	
				PORT HADLOCK, WA	
CHECKED	JH	APPROVED	JH	DRAWING NO.	REV. A
				D3275	SHEET 1 OF 1
DATE	04.03.10			TITLE	SCALE
				CROSS BOLT SPACER	1:1
A	04.03.10			NEW ISSUE	
AI	04.10.19			CHANGE MAT'L SPEC	

RELEASED
04.06.22



D3275-1 CROSS BOLT SPACER

- 1) MATERIAL: 6061-T6 (QQ-A-200/8 OR QQ-A-225/8)
(REF DART SPEC. ~~M6061T6R~~ M6061T6T0.313W.058 AI)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

Copyright © 2004 by DART AEROSPACE USA, INC.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Supplier: ETM001-VC
E.T.M. Industries Inc.
310 Hall Avenue, Box 610
Renfrew
ON
K7V 4E7 Canada
Phone: 613-432-6136
Fax: 613-432-8212

PO No: POHB043487
PO Date: 5/17/19
Due Date: 5/15/20
Purchase Order Revision:
Revision Date:
Ship-To Contact: Phone: .

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	195270	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed -		9/8/19 SEP 12 2019	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
2	195283	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed -		11/15/19	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
3	195294	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed -		2/14/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
4	195305	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed -		5/15/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
5	195271	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed -		9/8/19 AUG 30 2019	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
6	195284	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed -		11/15/19	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
7	195295	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed -		2/14/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	195306	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
9	195272	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	9/6/19	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
10	195285	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	11/15/19	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
11	195296	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	2/14/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
12	195307	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	5/15/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
13	195273	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	9/6/19	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
14	195286	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	11/15/19	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
15	195297	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	2/14/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
16	195308	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	5/15/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
17	195275	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	9/6/19	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB043487



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
18	195287	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
19	195298	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
20	195309	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
21	195276	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	9/6/19	75 Ea	0 Ea	75 Ea	\$2.25/Ea 1.39 \$ vs	\$168.75
22	195288	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
23	195299	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
24	195310	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
25	195277	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	9/6/19	62 Ea	0 Ea	62 Ea	\$2.25/Ea 1.03 \$ vs	\$139.50
26	195289	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	11/15/19	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
27	195300	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	2/14/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
28	195311	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	5/15/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
29	195278	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	9/6/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea 6.75 \$ US	\$110.00
30	195290	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	11/15/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
31	195301	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	2/14/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
32	195312	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	5/15/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
33	195279	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	9/6/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea 4.34 \$ US	\$2,325.00
34	195291	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	11/15/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
35	195302	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	2/14/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberle



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
36	195313	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	5/15/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
37	195280	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	9/6/19	250 Ea	0 Ea	250 Ea	\$3.00/Ea 2.40/Ea US	\$750.00
38	195292	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
39	195303	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
40	195314	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
41	195281	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	9/6/19	75 Ea	0 Ea	75 Ea	\$3.75/Ea 7.65/Ea US	\$281.25
42	195293	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
43	195304	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
44	195315	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
Grand Total:													\$26,938.00

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
POHB043487



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW, ON K7V 4E7
Canada

Ph: 613-432-6136

Fax: 613-432-8212

Pack List

Number: 143987

Date: 03-Sep-19

To

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ship To

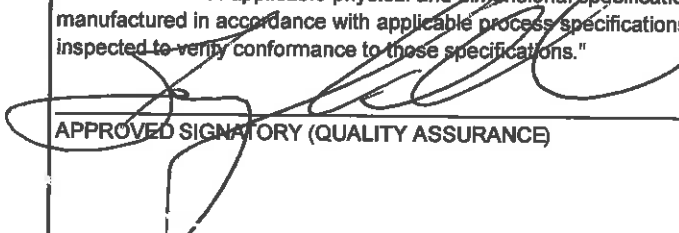
Patrick Lussier
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

Terms		Ship Via	
Net 30 days			
Quantity	Description		
62 each	Part: D3275-1P CROSSBOLT SPACER SO: 25664 **LOT #107193	Rev: A1 PO: POHB043487 Line: 25	
CERTIFICATE OF COMPLIANCE "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications; and has been inspected to verify conformance to those specifications."  APPROVED SIGNATORY (QUALITY ASSURANCE) RECEIVED SEP 11 2019 DART AEROSPACE LTD.			

AS9102 Revision B First Article Inspection

Form 1: Part Number Accountability

1. Part Number D3275-1P	2. Part Name CROSSBOLT SPACER	3. Serial Number N/A	4. FAI Number N/A
5. Part Revision Level REV. A1	6. Drawing Number D3275	7. Drawing Revision Level REV. A	8. Additional Changes N/A
9. Manufacturing Process Reference 107193	10. Organization Name ETM Industries Inc.	11. Supplier Code N/A	12. P.O. Number POHB043487, LN25
13. Detail FAI ☒	14. Full FAI ☒	<i>Baseline Part Number including Revision Level</i> N/A	
Assembly FAI ☐	Partial FAI ☐ <i>Reason for Partial FAI:</i> Not Applicable		
a) If above part number is a detail part only, go to Field 19 b) If above part number is an assembly, go to the "Index" section below.			
INDEX of part numbers or sub assembly numbers required to make the assembly noted above.			
15. Part Number	16. Part Name	17. Part Serial Number	18. FAI Report Number
N/A	N/A	N/A	N/A

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.	
2) Also indicate if the FAI is complete per Section 5.4: ☒ FAI Complete ☐ FAI Not Complete	
19. Signature Mike Morin	20. Date 8/28/19
21. Reviewed by	22. Date
23. Customer Approval	24. Date

AS9102 Revision B First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),
Functional Testing

1. Part Number D3275-1P	2. Part Name CROSSBOLT SPACER	3. Serial Number N/A	4. FAI Report Number N/A		
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
MAKE FROM; ALUMINUM TUBING	6061-T6 (QQ-A-200/8 OR QQ-A-225/8 (REF DART SPEC M6061T6T0.313W.058)	N/A	N/A	N/A	PRECISION TUBE CO. TRACEABILITY #2927553
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By Mike Morin				15. Date 8/28/19	

1. Part Number D3275-1P		2. Part Name CROSSBOLT SPACER		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results			
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents
1	SHEET 1 of 1	N/A	6061-T6 (QQ-A-200/8 OR QQ-A-225/8 (REF DART SPEC M6061T6T0.313W.058)	ACCEPT	PRECISION TUBE CO.: TRACEABILITY #2927553	N/A	C of C # #2927553
2	SHEET 1 of 1	N/A	TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED	ACCEPT	VERIFY	N/A	N/A
3	SHEET 1 of 1	N/A	3.180 ±0.010	3.186	Vernier	N/A	N/A
4	SHEET 1 of 1	N/A	✓ 0.313 +0.010/-0.005	0.3118	Micrometer	N/A	N/A
5	SHEET 1 of 1	N/A	✓ 0.197 ±0.010	0.1975	Vernier	N/A	N/A
6	SHEET 1 of 1	N/A	0.025-0.030 x 45° CHAMFER (TYP)	0.0281 x 44.75	Optical Comparator	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

Mike Morin

13. Date

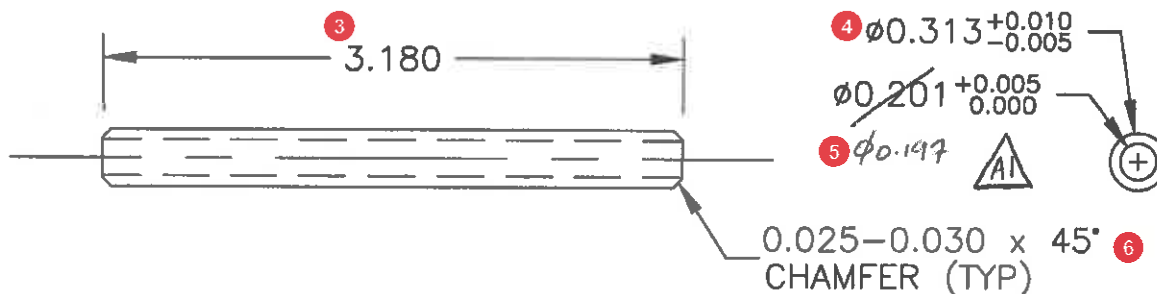
8/28/19



DESIGN		DRAWN BY		DART AEROSPACE USA, INC.	
				PORT HADLOCK, WA	
CHECKED		APPROVED		DRAWING NO.	REV. A
				D3275	SHEET 1 OF 1
DATE			TITLE		SCALE
04.03.10			CROSS BOLT SPACER		1:1
A		04.03.10	NEW ISSUE		
AI		07.10.17	CHANGE MAT'L SPEC		

RELEASED
04.06.22

CONTROLLED COPY



D3275-1 CROSS BOLT SPACER

- 1) MATERIAL: 6061-T6 (QQ-A-200/8 OR QQ-A-225/8)
(REF DART SPEC. M6061T6R) M6061T6T0.313W.053
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

Copyright © 2004 by DART AEROSPACE USA, INC.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.



O'Neil High-Performance Metals Group



Packing
Slip

ORDER NO.: 60684234 FROM: CRAN PAGE 1

CUST NUMBER: 1203407 NET WGT: 18.302 REQ.DATE: 07/12/19 CONFIRMED
SOLD TO: SHIP TO:
E.T.M. INDUSTRIES INC E.T.M. INDUSTRIES INC
310 HALL AVENUE 310 HALL AVENUE
BOX 610 ENUE RENFREW ONTARIO CANADA
RENFREW ON CANADA CN K7V 4E7
SALESPERSON: DEANNA PIMM SHIP BY: 07/08/19
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: 114946 #13 & 14 RELEASE NO.:
RECEIVING PHONE: 613 432 6136

LINE ITEM DESCRIPTION WIDTH LENGTH
0001 42252 D6061-T6 1/2 OD X .049 WA 12 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	12.000 EA	12.000 EA	12.000 EA	11.750	12

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49397748 HT:F002897190001 PC: 12 CUSTOMER QTY: 144.000 UOM FT
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:227680

0002 41723 D6061-T6 5/16 OD X .058 WA 12 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	10.000 EA	10.000 EA	10.000 EA	6.552	10

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49380591 HT:2927553 PC: 10 CUSTOMER QTY: 120.000 UOM FT
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:475790

CLEAR THRU E.T.M BROKER - H.O.C. - HARTWIG, O'SHEA &
CARTWRIGHT TEL 905-672-5100

AREA TYPE OF PKG		PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
NEW PEN REDDICRATE		1.000	48.302	4.0000	150.0000	6
Orders In Package - 1		Box No -	TWPK19044568		CUBIC FT	2.0833
		1.000	48.302			

BY: Tom Weaver
RT 000-

UNLOAD TYPE: NONE SPECIFIED

1 PO: *114946 #13 & 14*

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neil High-Performance Metals Group



Packing
Slip

ORDER NO.: 60684234

FROM: CRAN

PAGE 2

CUST NUMBER: 1203407 NET WGT:
SOLD TO:
E.T.M. INDUSTRIES INC
310 HALL AVENUE
BOX 610 ENUE
RENFREW ON
CANADA
SALESPERSON: DEANNA PIMM
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: 114946 #13 & 14

18.302 REQ.DATE: 07/12/19 CONFIRMED
SHIP TO:
E.T.M. INDUSTRIES INC
310 HALL AVENUE
RENFREW ONTARIO CANADA
CANADA

CN K7V 4E7

SHIP BY: 07/08/19
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE: 613 432 6136
WIDTH LENGTH

LINE ITEM DESCRIPTION

DATE SHIPPED _____

1 PO:



114946 #13 & 14

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



One of High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60684234

FROM: CRAN

PAGE 3

CUST NUMBER: 1203407	NET WGT: 18.302	REQ.DATE: 07/12/19	CONFIRMED
SOLD TO:	SHIP TO:		
E.T.M. INDUSTRIES INC	E.T.M. INDUSTRIES INC		
310 HALL AVENUE	310 HALL AVENUE		
BOX 610	RENFREW ONTARIO CANADA		
RENFREW ON	CANADA	CN K7V 4E7	
CANADA			
SALESPERSON: DEANNA PIMM	SHIP BY: 07/08/19		
TERMS: NET 30 DAYS	27 ENGLEHARD DRIVE		
F.O.B.: SHIPPING POINT	MONROE TWP	NJ 08831	
CUST ORD NO.: 114946 #13 & 14			
VIA: COMMON CARRIER			
FREIGHT: PREPAID			
RELEASE NO.:			
RECEIVING PHONE: 613 432 6136			

"TW Metals SDS data is available on our website at www.twmetals.com. SDS data can be found under the Company Tab,>Compliance/QA,>SDS. If you do not have access to our website, you may call us at 610-458-1300, and we will mail or fax you a copy of our current SDS date to you."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 9/03/19

Janice Clark

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

PART 03490-5P



A COMPANY OF MUELLER INDUSTRIES

PRECISION TUBE CO.
287 WISSAHICKON AVE
NORTH WALES PA 19384

Control No: 6257

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO. M 49380591 LINE 001	CUST. ORD. NO. 075790	PRECISION TUBE P/N 24A031250580005
SOLD: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES		SHIP: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
3204 FT	METAL - 6061 ALUMI TEMPER - T6 SPEC - AMS 4084P ASTM-B-210-12 AMS-T-700/5C LENGTH - 12 FT LGTH TOL +.1250 IN -.1000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3125 -.0030 -.0030 ID WALL .0580 -.0540 -.0540	3456 FT	12/13/17

DAS
81
9-89

MECHANICAL PROPERTIES					
SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	45,376	41,941	12		
2	45,712	40,859	15		

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION									
ALLOY: 6061	HEAT:	TRACEABILITY #: 2927553	RAW MATERIAL VENDOR: PTC13607 - KAISER ALUMINUM INVESTMENTS						
	Si	Fe	Cu	Mn	Mg	Zn	Ti	Al	
Min	0.40		0.15		1.00	0.4		Rem.	
Max	0.80	0.70	0.40	0.1	1.20	0.5	0.15		

OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL

We hereby certify that the material has been manufactured in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing process, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device or process. This material is compliant with the current revision of the RoHS Directive (2011/65/EU).

DEC 19 2017
49380591
TW METALS
Jennifer James
Quality & Technical Lead

12/13/17
Page: 1 of 1

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008